Academic Biology
Final Exam Study Guide
June 2022

Chapter 15 ~ Genetic Engineering

Lesson 15.1: Selective Breeding

Selective Breeding:

- Selective Breeding - allowing only animals with wanted characteristics to produce the next generation
  - Humans use selective breeding to take advantage of naturally occurring genetic variation and pass wanted traits on to the next generation
- Hybridization - the crossing of dissimilar individuals to bring together the best of both organisms
- Inbreeding - the continued breeding of individuals with similar characteristics
  - Ensures that characteristics that make each group of animals unique are preserved

Increasing Variation:

- Breeders can increase the genetic variation in a population by introducing mutations, which are the ultimate source of biological diversity
- Biotechnology - the application of a technological process, invention, or method to living organisms
- Breeders can increase the mutation rate of an organism by using radiation or chemicals
  - Often produce a few mutants (individuals with mutations) with useful characteristics that are not found in the original population
- Polyploidy is less fatal in plants b/c plants are better at tolerating extra sets of chromosomes
  - Produces new species of plants that are larger and stronger than regular diploid plants

Lesson 15.2: Recombinant DNA

Manipulating DNA:

- By using tools that cut, separate, and then replicate DNA base by base, scientists can now read the base sequences in DNA from any cell
- Many bacteria produce enzymes called restriction enzymes, which are highly specific substances that cut DNA molecules into precise pieces called restriction fragments
  - Restriction enzymes are used by bacteria as a defense against invading viruses, by chopping up the viral DNA as it enters the cell
- Each restriction enzyme cuts DNA at a different sequence of nucleotides called a recognition site
  - Act as "molecular scissors"

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Padhraic Smyth

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